

Alignment .msf am 4.2.2003

Visser Sequence X58453 compared to Seq. ID No.1 (AX 349063) of WO 02/02785

ClustalW 1.8 Parameters	MView Parameters (output)
→fast pairwise alignment followed by multiple alignment	
ktuple=2 topdiags=4 pairgap=5 gapopen=10 gapext=5 maxdiv=40 dnatrix: IUB transitions: unweighted	
ruler: on coloring: identity threshold: 80 width: 50 consensus: off consensus coloring: identity consensus threshold: 100 consensus gaps: on consensus ref: 1 colormap: D_plain colorfile: -colorfile D_plain.map cons. colormap: -con_colormap D_plain	consensus ignore: singleton

Identities computed with respect to: (1) Visser-Seq

Colored by: identity + property

Visser-Seq 100.0%	1 [: 50
WO 45.5%	AAGCTTTAACGAGATAGAAAATTATAATACTCCGTTTTGTTTCATTACTTA	
	-----GTTTGGTTTCGCTGTTTTTCATTTCTTT	
Visser-Seq 100.0%	51	1 100
WO 45.5%	ACAAATGCAACAGTATCTTGTACCAAATCCTCTC-TCTTTTCAAACCTTTT	
	TCTTCTTAAGGGGTAATACCAATGACAGTAATTCATATTGTGTAAACAGTG	
Visser-Seq 100.0%	101	: 150
WO 45.5%	CTATTTGGCTGTTGACAGAGTAATCAGGATACAAAC-CACAAGTATTTAA	
	CGATT---CTTGTGCCA-----ATTATG-TACAATTTCTTTGTAATTGT	
Visser-Seq 100.0%	151	2 200
WO 45.5%	TTGACTCATCCACCAGATATTATGATTTATGAATCCTCGAAAAGCCTAT-	
	TTGTTTCATGTTTTATTTCATTTTCCTTTACTTTTAGGCTAAAACCAATG	
Visser-Seq 100.0%	201	: 250
WO 45.5%	CCATTAAGTCCTCAT--CTATGGATATACTTGACAGTTTCTTCTTA-TTT	
	CCCCAATTCAATCTACCTAAGAGGAAA-TT--CAGTTTATACTAGTTT	
Visser-Seq 100.0%	251	3 300
WO 45.5%	GGGTTTTTTTTTTTCTGCCAAGTGAACGGAGACATGTTATGTTGTATA	
	CAGTTTATTATTGTTTATTAAGTGT-----TTTAGTTGGTTTT	
Visser-Seq 100.0%	301	: 350
WO 45.5%	CGGGAATCTCGTTAAAAAATAACAATAGGAAGAAATGTAACAAACA	
	CTCATTTATGTGTATGCATGAATAT---TAGG--GGTGTTG-----	
Visser-Seq 100.0%	351	4 400
WO 45.5%	TTGAATGTTGTTTTTAACCATCCTTCTTTTAGCAGTGATCAATTTT--	
	-TCGTGT-GTTAATATACA-CATAAGTATTA---TACACCCATTTTGT	
Visser-Seq 100.0%	401	: 450
	-GTAATAGAACCATGCATCTCAATCTTAATACTAAAAATGCAACAAAA	

WO	45.5%	CAGTCATATAAATTATGCA-----ATTTCAGTAC---AAATGTGCGCAAA	
Visser-Seq	100.0%	451 TTCTAGTGGAGGGACCAGTACCAGTACATTAGATATTATTTTTTATTACT	5 500
WO	45.5%	CTCTTCTT-----CATT---TTTATTTTTTTATT-T	
Visser-Seq	100.0%	501 ATAATAATATTTTAAT-TAACACGAGACATAGGAATGTCAAGTGGTAGCG	: 550
WO	45.5%	ATTTTCTTCTTTAAGGGTAATACCAATGATACTAATTT----ATGCCTCA	
Visser-Seq	100.0%	551 GTAGGAGGGAGTTGGTTTAGTTTTAGATACTAGGAGACAGA-ACCGGAG	6 600
WO	45.5%	TTTGGA--AATTTCTTTTCAAAAT-ATGCTAGTACACACTTATTCTTG	
Visser-Seq	100.0%	601 GGGCCCATTCGAAGGCCCAAGTTGAAGTCCAGCCGTGAATCAACAAAGAG	: 650
WO	45.5%	TATATTATCGAAAAGCGCAATTT-----CTGTGTA-----	
Visser-Seq	100.0%	651 AGGGCCCATATAACTGTCTGATGAGCATTTCCTATAATACAGTGTCCACA	7 700
WO	45.5%	-----AGTTTGTCTATTCTGTATTT-----TTTTTCATTTTTC---	
Visser-Seq	100.0%	701 GTTGCCTTCCGCTAAGGGATAGCCACCCGCTATTCTCTTGACACGTGTCA	: 750
WO	45.5%	--TTTCTCTCTGG-AAGGGTAACACTAATGCCACTAA-TTCATTCTTG-CT	
Visser-Seq	100.0%	751 CTGAAACCTGCTACAAATAAGGCAGGCACCTCCTCATTCTCACACTCACT	8 800
WO	45.5%	TAGAAAACCTT-TAGTATTTTGATTGTGTTTAGTTTTTAATTCATTTTGT	
Visser-Seq	100.0%	801 CACACAGCTCAAC-AAGTGGTAACTTTACTCATCTCCTCCAATT-----A	: 850
WO	45.5%	TTCTTCTTTAAGGGAATACCAA-TGCCACTAATCATTCCTCATCTAGAA	
Visser-Seq	100.0%	851 TTTCTGATT-TCATGCATGTTTCCCTACATTG-TATTATGAATCGTGTTA	9 900
WO	45.5%	AATCTCTTTATCTTACAAAAA-CTCAACTTTATATGCTTATTCGTGC-A	
Visser-Seq	100.0%	901 TGGTGATATAAA-CGTTGTTTCATATCTCATCT-CATCTATTCTGATTTTG	: 950
WO	45.5%	TATTATATAAAAGCACACTTTC-TATCTAATTGCGTGCAAACT--TTATC	
Visser-Seq	100.0%	951 ATTCTCTTGCTACTGTAATCGGTGATA-AATGTGAATGCTTCCTCTTCT	0 1000
WO	45.5%	ATTAT-TTGTCTAATTAATTTTTTCTAGAATG---ATGATACCAATGCC	
Visser-Seq	100.0%	1001 TCTTCTTCTTCTTCTTCTTCTCAGAAATCAATTTCTGTTTTGTTTTGTT	: 1050
WO	45.5%	ACTAATTC-----ATTGCG-TGAGCAGCAATATGCCGAATG-----	
Visser-Seq	100.0%	1051 CATCTGTAGCTTGGTAGATTCCCTTTTGTAGACCACACATCACATGG-	1 1100
WO	45.5%	CCTACGTATATTAGTGGTGTGCGATTTTTC---ATCTCTCA-CGCATGG	
Visser-Seq	100.0%	1101 CAAGCATCACAGCTTCACAC-CACTTTGTGTCAAGAAGCCAAACTTCACT	: 1150
WO	45.5%	CATGCATACC--CTACACATGCACACACGCAT-ACACAACACATAGC	
Visser-Seq	100.0%	1151 AGACACCAAATCAACCTTGTACAGATAGGACTCAGGAACCATACTCTGA	2 1200
WO	45.5%	ACTCAGCGGAGCA-CATGCATACACCT-CTGCGCACACACAGACCGA	
Visser-Seq	100.0%	1201 CTCACAATGGTTTAAGGGCTGTTAACAAGCTTGATGGGCTCCAATCAAGA	: 1250
WO	45.5%	CACACAC-----GCACAGCCA-CATGCGTG-----CACTTAGAAGA	
Visser-Seq	100.0%	1251 ACTAATACTAAGGTAACACCCAAGA-TGGC-ATCCAGA--ACTGAC-ACC	3 1300
WO	45.5%	AAAAATAGACAGCTAT-ACATTGCACTGGCTAGCTATACTACCGTCTAAC	

Visser-Seq	100.0%	1301	AAGAG-ACCTGGATGCTCAGCTACCATTGTTTGTGGAAAGGGAATGAACT	1350
WO	45.5%		ACTAGTAGCTTGGTGTGTGTACGACC-TATTTCAGGT---GCCACAGACT	
Visser-Seq	100.0%	1351	TGATCTTTGTGGGTACTGAGGTTGGTCCTTGGAGCAAAACTG-GTGGACT	4 1400
WO	45.5%		AGTATTTTCAGGCGACTGGCATATAGCCACGGCCTATTGTTTCGTGTCGT	
Visser-Seq	100.0%	1401	AGGT-GATGTTCTTGGTGGAC-TACCACCAGCCCTTGCAGTAAGTCTTTTC	1450
WO	45.5%		AGGACGAAAACGGTCAATATATGTGGCACTGGCC-TTCTAGAGACTCTCCA	
Visser-Seq	100.0%	1451	ATTTGGTTACCTACTCATTCACTTATTTTGTTTAGTTAGTTTCTACT	5 1500
WO	45.5%		AGAGGCTCACCACCTCAC-CGTGAGTGACAGCCCACCGTC-GCGTAAACCC	
Visser-Seq	100.0%	1501	GCATCAGTCTTTTTATCATTTAGGCCCGCGACATCGGGTAATGACAATA	1550
WO	45.5%		ACCGCA-----TTTA-CGTTT-----CCCCG---ATCCGACAAAGCCAGGG	
Visser-Seq	100.0%	1551	TCCCCCGGTTA-TGACCAA-TACAAAGATGCTTGGGATACTAGCGTTGCG	6 1600
WO	45.5%		CACGCACGTACGTGTCCATGTTGGCACGTGCGTGCCTCCCTCACGCGCCG	
Visser-Seq	100.0%	1601	GTTGAGGTACATCTTCTCTATTTTGATA-CGGTACAATATTGTTCCCTTAC	1650
WO	45.5%		GTTTGCAGCAGTACGT-----GCTAGCTGTTCA-----TA--CCAGAGC	
Visser-Seq	100.0%	1651	ATTTCTGATTCAAGAATGTGATCCGCTACTTTATCTGCAGGTCAAAGTT	7 1700
WO	45.5%		CGTAGCTCAATCAAGCAAAAGA---GAAAAGAA-----GGGCGAAAGGT	
Visser-Seq	100.0%	1701	GGAGACAGCATTGAAATGTTTCGTT-TCTTTCACTGCTATAAACGTGGGG	1750
WO	45.5%		G-ATAGGCC--CGGCCGTGT-CGTCTGTCTGCAGAGGAAGCAATCCCGGG	
Visser-Seq	100.0%	1751	TTGATCGTGTTTTGTGTGACC-ACCCAATGTTCTTGGAGAAAGTAAG	8 1800
WO	45.5%		CCATGCAAGCGCCATTGCCACGCCCCAGCGAAAGCGAAGGCGAGAGCGAG	
Visser-Seq	100.0%	1801	TAAGCATATTATGATTATGAATCC-GTCTTGAGGGATACGCAGAACAGGT	1850
WO	45.5%		--AGCACAC-ATG-----GCCCCAGAACTGAAAGCGAGCGAGCACACGA	
Visser-Seq	100.0%	1851	CATTTTGAATATCTTTTAAC-TCTTA-CTGGTGCTTTTACT--CTTTTAA	9 1900
WO	45.5%		GAAGGCGCGTGCCTGTTGACATCAGAGCGAAGACCCACCGGCAGCCCA	
Visser-Seq	100.0%	1901	GGTTTGGGGCAAACTGGTTCAAAAATCTATGGCCCCAAAGCTGGACTAG	1950
WO	45.5%		CCGGGCGGGCGCGGCAGGACAAGAAG--ATGCGTGACCGCGCGGC-----	
Visser-Seq	100.0%	1951	ATTATCTGGACAATGAACTTAGGTTAGCTTGTGTGT-CAAGTAAGTTA	0 2000
WO	45.5%		-----CGGCAAGCGAAGGGGGCGCGCGCGCGCGAGCGCAGCGAA---A	
Visser-Seq	100.0%	2001	GTTACTTGTATACTGTTGTCTTGATTTTATGTG-GCATTTGTCTTTAA	2050
WO	45.5%		CGCGCGTCCGGCCAGCCACGACGCCGTGGAAAGCGCGCGGCG-----AA	
Visser-Seq	100.0%	2051	TCGTTTTTTTAACTTGTCTTCTCAGGCAGCCCTAGAGGCACCTAAAGTT	1 2100
WO	45.5%		CCGAGAATGTG-CCAGGCTGCCA---GCCGCTCC-GCGCTACCACTAGTC	
Visser-Seq	100.0%	2101	TTGAATTTGAACAGTAGCAACTACTTCTCAGGACCATATGGTAATTAACA	2150
WO	45.5%		TGGTACGTGT-----GCCACT-CCACTCCGCTCCGCTCGGCAGCA-CG	

Visser-Seq	100.0%	2151	CATCCTAGTTTCAGAAAACCTCTAGTAT-ATCATTGTAGGTAATCATCT	2	2200
WO	45.5%		CA-CGCAGG--CAGAAACAAACAAACAAACAAAGTGGGTCACTCACT		
Visser-Seq	100.0%	2201	TTATTTTGCTATTCTGCAGGAGAGGATGTTCTTTCATTGCCAATGAT		2250
WO	45.5%		CCACTCAACGTCGCCTTTCAGGA--CGATG----CTTCGGTGCC--TTAA		
Visser-Seq	100.0%	2251	TGGCACACAGCTCTCATTCCTTGCTACTTGAAGTCAATGTACCAGTCCAG	3	2300
WO	45.5%		-GACACCTACCTTTGTGTCTATGACATGTGAGCCCAA-----CAGATGGC		
Visser-Seq	100.0%	2301	AGGAATCTATTGAATG--CCAAGGTAAATTTCTTTGTATTCACTTGAT		2350
WO	45.5%		TGGCCCACTGTCAGTCATCCAAAGGCGAGGTGCCTTTAAAG-CAGCGAA-		
Visser-Seq	100.0%	2351	TGCGCTTTACCCTGCAATCAGTA-AGGTTGTATTAATAAATGATAAATT	4	2400
WO	45.5%		---GCTGCGTCCCGCCTTTCATTACACGGGCCATGCATGCGGTGCG---		
Visser-Seq	100.0%	2401	TCACATTGCCTCCAGGTCGCTTCTGCATCCATAACATTGCCTACCAAGG		2450
WO	45.5%		TGCCGTCGGTCTAGG---CGTTCCGGTGCCGGCCGCGTGCATGC-ATGC		
Visser-Seq	100.0%	2451	CCGATTTCTTTCTCTGACTTCCCTCTTCTCAATCTTCTGATGAATTCA	5	2500
WO	45.5%		ACGAGGAGCGGAG-CGGAGCGGG-----TATTGGGATCCAGCCA		
Visser-Seq	100.0%	2501	GGGGTTCTTTTGATTTCAATGAT-GGGTATGTATTTAATGCTTGAAATCA		2550
WO	45.5%		CCCGA-----GGACTG-AGCGAGCGGGCGAGTAC-----AAATAA		
Visser-Seq	100.0%	2551	GACCACCAACTTTTG--AAGCTCTTTTGATGCTAGTAAATGAGTTTAA	6	2600
WO	45.5%		CCCCACTACCGGAGCCACCGACCGTTCT-----TTCCCTTGAGTCCCGT		
Visser-Seq	100.0%	2601	AAATTTTGAGATATGAGAAGCCTGTTAAGGGTAGGAAAATCAACTGGAT		2650
WO	45.5%		CACCTTTCGCCC-----GCCCGCCCCACACACTACAGCAGGAGCCT		
Visser-Seq	100.0%	2651	GAAGGCTGGGATATTAGAATCACATAGGGTGGTTACAGTGAGCCCATACT	7	2700
WO	45.5%		CGAT-CTGCCAGTGAAGAAGAAGA-AGG-----ACACTCA-CGAATGCC		
Visser-Seq	100.0%	2701	ATGCCCAAGAACTTGCTCTGCTGTTGACAAGGGTGTGAATTGGAC--A		2750
WO	45.5%		CGCGGGCGACTGTGAGTACGCTCCCTTCAGGAAGAGAAAGAAGAAGAA		
Visser-Seq	100.0%	2751	GTGTCCTTCGTAAGACTTGCATAACTGGGATTGTGAATGGCATGGATACA	8	2800
WO	45.5%		GAAGCAGAAGAAAGAAAGCAGAA--GAAGAGATCAGACCAGGTACGCA		
Visser-Seq	100.0%	2801	CAAGAGTGGAA-ACCCAGCGACTGACAAATACACAGATGTCAAATACGATA		2850
WO	45.5%		CGAACGTATATAGTCAG-GCCGCGCCAGTTCCCGCCCGCCGG--ACGATG		
Visser-Seq	100.0%	2851	TAACCACTGTAAGATAAGATTT--TTCCGACTCCAGTATATGCTAAATTG	9	2900
WO	45.5%		GAT-----AGATC-GATTTAGTTGGGTCTCAATCAAGGTCGGTTGG		
Visser-Seq	100.0%	2901	TTTGTATGTTTATGAAATTAAAGAGTTCTTGCTAAT--CAAAATCTCTA		2950
WO	45.5%		TCTAGTA-GTAGAT-----AGA--TCCATCCAAATGCCGCCATGTGT		
Visser-Seq	100.0%	2951	TACAGGTCATGGACGCAAAACCTTTACTAAAGGAGGCTCTTCAAGCAGCA	0	3000
WO	45.5%		TAGATC-CAGAGTCTCTTCCCTTTTACTTAAAGA---TCG-CGAGCGTAA		
		3001			3050

Visser-Seq	100.0%	GTTG--GCT--TGCCTGTTGACAAGAAGATCCCTTTGATTGGCTTCATCGG	
WO	45.5%	GTTGAGCATCTTCCTATAGATTCTAGAT-----TTAAA--ATCAT--G	
		3051	1 3100
Visser-Seq	100.0%	CAGACTTGAGGAGCAGAAAGGTTGAGATATTCTTGTGCTGCAATTCACA	
WO	45.5%	TAAAAATTAAAA--AAAAAGATTAAAA--TCATGTA-CTGC--TAGCT	
		3101	3150
Visser-Seq	100.0%	AGTTCATCGGATTGGATGTTCAA--ATTGTAGTCCTT--GTAAGTACCAAA	
WO	45.5%	AGG--ATGCATTCTATGTGAACGATCTTAGATCTGCGGAACAGATCAA	
		3151	2 3200
Visser-Seq	100.0%	TGGACTCATGGTATCTCTCTTGTGAGTTTACTTGTGCCGAAACTGAAAT	
WO	45.5%	TGGATTTCATGG--CCGGCTAG--GGTTAATTACGACTAGACAGAGGC	
		3201	3250
Visser-Seq	100.0%	TGACCTGCTACTCATCCTATGCAT--CAGGGAAGTGGCAAAAAGGAGTTT	
WO	45.5%	AG--CATAATGGCG--CATAAACATTTCTGTTTCTAGCC--GAGTTG	
		3251	3 3300
Visser-Seq	100.0%	GAGCAGGAGATTGAACAGCTCGAAGTGTTGTACCTAACAAAGCTAAAGG	
WO	45.5%	GATCA--A-----ACAGGTC--AGGTCACGACC-----AAGG	
		3301	3350
Visser-Seq	100.0%	AGTGGCAAAATTCAATGTCCCTTTGGCTCACATGATC--ACTGCTGGTGCT	
WO	45.5%	CTTTG--ATTTTGTGTTGTTTGGCGTGGGCGTTCCACTGC-----	
		3351	4 3400
Visser-Seq	100.0%	GATTTTATGTTGGTTCCAAGCAGATTGAACCTTGTGGTCTCATTCAAGTT	
WO	45.5%	-ACCTTA-----CAGAACAAATT--CGATTT--CTCAGCCAGTT	
		3401	3450
Visser-Seq	100.0%	ACATGCTATGCGATATGGAACAGTAAGAACCATAAGAGCTTGTACCTTTT	
WO	45.5%	CCACCCTGTC-----ACGCGATTAAACAGCTTATTAATTAC	
		3451	5 3500
Visser-Seq	100.0%	TACTGAGTTTAAAAAAGAATCATA--AGACCTTGTTTCCGTCTAAAGT	
WO	45.5%	TACC--AGTGGGAGACA--CGTTCATATATCTCTGGT--CATGTTAATT	
		3501	3550
Visser-Seq	100.0%	TTAATAGCCAAC--AAATGTTAC--TGCAGCAAGCTTTTCATTTCTGAAAA	
WO	45.5%	TGGATTTCAAATTCAAATGTAAAAATCCAGAAAAGTTGA-----CTGCAA	
		3551	6 3600
Visser-Seq	100.0%	TTGGTTATCTAATTTTAACATAATCACATGTGAGTCAGGTGCCAATCTGT	
WO	45.5%	TT-----CTGGTTT--ACTTCACTAC-----TCAC--TAACAATCAGT	
		3601	3650
Visser-Seq	100.0%	GCA--TCGACTGGTGGACTTGTGACACTGTGAAAGAAGCTATACTGGAT	
WO	45.5%	GCAGTCGTCT-----CTGCTG--C-----AGGTAGCCACAC-----	
		3651	7 3700
Visser-Seq	100.0%	TCCATATGGGAGCCTTCAATGTTGAAGTATGTGATTTTACATCAATTGTG	
WO	45.5%	--CCTGCGCGCGCC--ATGGCG-----G	
		3701	3750
Visser-Seq	100.0%	TACTTGTACATGGTCCATTCTCGTCTTGATATACCCCTGTTGCATAAAC	
WO	45.5%	CTCTGGT--CACGTCACAG--CTCGCCACCTCCGGCAGCGTCTT--CAGCGTC	
		3751	8 3800
Visser-Seq	100.0%	ATTAACTTATTGCTTCTTGAATTTGGTTAGTGC--GATGTTGTTGA--CCC	
WO	45.5%	ACCGACAGATTCCGGCGTCCAGGTTTCAGGGCCTGAGCCCCCGGAACCC	
		3801	3850
Visser-Seq	100.0%	AGCTGATGTG--CTTAAGATAGTAACAACAGTTGCTAGAGCTCTTGCACTC	
WO	45.5%	GCGGATGCGGCGCTCGGCA--TGAGGAGTGTG--GAGCGAGCGCCCGC	
		3851	9 3900
Visser-Seq	100.0%	TATGGCACCCCTCGCATTGTGCTGAGATGATAAAAAATTGCATGTCAGAGGA	

WO	45.5%	-----CCAAA GCA AAGCAG GAA ACCG C CCGATT CG ACC GG CC CTG -----	
Visser-Seq	100.0%	3901 : 3950	
WO	45.5%	ACTCTCCTGGAAGGTAGGTGTCAAATTGATAATTTGCGTAGGTACTT CAG CCTCTCCAT CT GGT GC CC CA CGGG CA -----GCGGC GG CA--TGAA	
Visser-Seq	100.0%	3951 0 4000	
WO	45.5%	TTTGT TG TTCTCGTCAGTACTGATGGATGCCAAG--TGGTGTTCATGCAGG CCT CG TGTT C --GT CG CC CG CA--GAT CG CC CT GGGA-----CCAAG	
Visser-Seq	100.0%	4001 : 4050	
WO	45.5%	AACCTGCCAAGAAATGGGAGACATTGCTATTGGGCTTAGGAGCT TC --TG A--CTGG C --GGC CT GG CG AG CT C-CTCG GG CC CT CCCC GC CG CA TG	
Visser-Seq	100.0%	4051 1 4100	
WO	45.5%	GCAGTGAACC--CGGTGTGAAGGGGAAGAAATCGCTCCACTTGCCAAGG GCC TA AG CT TG CG CCACT CG CCTTCTTA TA AATGTTTCTT CT CG--AGC	
Visser-Seq	100.0%	4101 : 4150	
WO	45.5%	AAAATGTAGCCACTCCCTAAATGAGCTTTGGTTATCCTTGT TT CAACAAT CA T -----CCCTGC CG TT CA ACCGGT GC CG CTG -TCC CTG ---CAGGCCA	
Visser-Seq	100.0%	4151 2 4200	
WO	45.5%	AAGATCATTAAGCAAACGT--ATTACTAGCGAACTATGTAGAACCCTATT AC CG TCACCGGG TC AT CG TCATCTCCCG CG --CTACGACCA GT ACAAGG	
Visser-Seq	100.0%	4201 : 4250	
WO	45.5%	AT C --GGGTCTCAA--TCATCTACAAATGATTGGTTTTT GCT GGGGA AC CG CCTGGGACAC CG AGC CT ATCT CG CA-----GGTATAT-----A	
Visser-Seq	100.0%	4251 3 4300	
WO	45.5%	GCAGCAGCAT--ATTAGGCTGTAAATC-CTGGTTAATGATTTT G TAGGT T CG GCACATGAATTA--TCACAAT TC AT GT CTCCTGCACATTT CT GC	
Visser-Seq	100.0%	4301 : 4350	
WO	45.5%	AAGGGCTATTTAAGGTTGTGTGGATCAAAGTCAATAGAAAATAGTTATTA AAG A -CT-TTACT CA CT GG CTGGATC---TCGC-AGAT CA AG GT -----	
Visser-Seq	100.0%	4351 4 4400	
WO	45.5%	CTAACGTTTGCAACTAAATACTTAGTAATGTAGCATAAAATACTAGTA ----CGTTGACAGGT AC G-AGAGGGT GA GT ACT TCC ACT GC TA GAAGCG	
Visser-Seq	100.0%	4401 : 4450	
WO	45.5%	GCTAATATATATGCGTGAATTTGTTGTACCTTTCTTGCATAATTATTTG CGGG CT GG ACC -GCG TG --TT CG TC G -AC-----	
Visser-Seq	100.0%	4451 5 4500	
WO	45.5%	CAGTACATATATAATGAAATTAACCAAGGAATCAATGTTTCTT GCT CCG -----	
Visser-Seq	100.0%	4501 : 4550	
WO	45.5%	TCCTCCTTTGATGATTTTTTACTCAATGCAGAGCTAGTGTGTTAAGTTAT -----	
Visser-Seq	100.0%	4551 6 4600	
WO	45.5%	AAATTTTGTTTAAAGAAAGTAATCAATTTCAAATTAGTTGGTTGGTCATA -----	
Visser-Seq	100.0%	4601 : 4650	
WO	45.5%	TGAAAGAAGCTGGCAGGCTAACTTTGAGGAGATGGCTATTGAATTTCAA -----	
Visser-Seq	100.0%	4651 7 4700	
WO	45.5%	GTGATTATGTGAAAACAATGCAACATTTATGTCAATCAACACTTAAATTA -----	
Visser-Seq	100.0%	4701 : 4750	
WO	45.5%	TTGCATTTAGAAAGATATTTTTGAGCCCACGACACATTCATTCATAAGT -----	

4751] 4757
Visser-Seq 100.0% AAGGTAG
WO 45.5% -----

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